

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/007386

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H01S5/183

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H01S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX, IBM-TDB

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 772 266 A (MOTOROLA INC) 7 May 1997 (1997-05-07)	1-14,16, 19,20, 23,25,26
Y	column 3, lines 16-59; figures 2,3  column 4, line 50 - column 5, line 7 -----	4-8,17, 18,21-29
X	US 5 256 596 A (ACKLEY DONALD E ET AL) 26 October 1993 (1993-10-26)  column 2, line 28 - column 4, line 12; figures 1,2  -----  -/--	1,9,12, 13, 15-17, 19,20,23

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

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- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the International search

1 October 2004

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14/10/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>SHINADA S ET AL: "Micro-aperture surface emitting laser for near field optical data storage" LASERS AND ELECTRO-OPTICS, 1999. CLEO/PACIFIC RIM '99. THE PACIFIC RIM CONFERENCE ON SEOUL, SOUTH KOREA 30 AUG.-3 SEPT. 1999, PISCATAWAY, NJ, USA, IEEE, US, 30 August 1999 (1999-08-30), pages 618-619, XP010364559 ISBN: 0-7803-5661-6 the whole document</p>	17,18, 23,27-29
Y	<p>EP 1 276 188 A (AVALON PHOTONICS AG) 15 January 2003 (2003-01-15) paragraphs '0020!, '0021!, '0033! - '0037!; figure 5</p>	21,22
Y	<p>NISHIYAMA N ET AL: "MULTI-OXIDE LAYER STRUCTURE FOR SINGLE-MODE OPERATION IN VERTICAL-CAVITY SURFACE-EMITTING LASERS" IEEE PHOTONICS TECHNOLOGY LETTERS, IEEE INC. NEW YORK, US, vol. 12, no. 6, June 2000 (2000-06), pages 606-609; XP000951817 ISSN: 1041-1135 the whole document</p>	23,27-29
Y	<p>US 6 529 541 B1 (NAKAYAMA HIDEO ET AL) 4 March 2003 (2003-03-04) column 8, line 11 - column 12, line 27; figures 1-4,6-9 column 14, line 14 - column 20, line 57</p>	4-8, 24-29

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Information on patent family members

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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
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			JP	6045694 A	18-02-1994
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			US	2002172247 A1	21-11-2002
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